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AUG 09 2002

U.S. PATENT & TRADEMARK OFFICE

POWER OF ATTORNEY

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9-23-02

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

RECEIVED

Application of: Langermann et al.

Confirmation No.: 9514

AUG 14 2002

Application No.: 10/015,085

Group Art Unit: 1645

TECH CENTER 1600/2900

Filed: December 10, 2001

Examiner: To Be Assigned

For: MUTANT PROTEINS, HIGH POTENCY
INHIBITORY ANTIBODIES AND FIMCH
CRYSTAL STRUCTURE

Attorney Docket No.: 10271-037-999

**POWER OF ATTORNEY BY ASSIGNEE
AND EXCLUSION OF INVENTOR(S) UNDER 37 C.F.R. 3.71
WITH STATEMENT UNDER C.F.R. 3.73(b)**

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

The undersigned assignee of the entire interest in the above-identified subject application hereby appoints: Berj A. Terzian (Reg. No. 20060), David Weild, III (Reg. No. 21094), Barry D. Rein (Reg. No. 22411), Stanton T. Lawrence, III (Reg. No. 25736), Charles E. McKenney (Reg. No. 22795), Philip T. Shannon (Reg. No. 24278), Francis E. Morris (Reg. No. 24615), Charles E. Miller (Reg. No. 24576), Gidon D. Stern (Reg. No. 27469), John J. Lauter, Jr. (Reg. No. 27814), Brian M. Poissant (Reg. No. 28462), Brian D. Coggio (Reg. No. 27624), Rory J. Radding (Reg. No. 28749), Stephen J. Harbulak (Reg. No. 29166), Donald J. Goodell (Reg. No. 19766), Thomas E. Friebel (Reg. No. 29258), Laura A. Coruzzi (Reg. No. 30742), Jennifer Gordon (Reg. No. 30753), Geraldine F. Baldwin (Reg. No. 31232), Victor N. Balancia (Reg. No. 31231), Samuel B. Abrams (Reg. No. 30605), Steven I. Wallach (Reg. No. 35402), Marcia H. Sundeen (Reg. No. 30893), Paul J. Zegger (Reg. No. 33821), Edmond R. Bannon (Reg. No. 32110), Bruce J. Barker (Reg. No. 33291), Adriane M. Antler (Reg. No. 32605), Thomas G. Rowan (Reg. No. 34419), James G. Markey (Reg. No. 31636), Thomas D. Kohler (Reg. No. 32797), Scott D. Stimpson (Reg. No. 33607), Gary S. Williams (Reg. No. 31066), Ann L. Gisolfi (Reg. No. 31956), Todd A. Wagner (Reg. No. 35399), Scott B. Familiant (Reg. No. 35514), Kelly D. Talcott (Reg. No. 39582), Francis D. Cerrito (Reg. No. 38100), Anthony M. Insogna (Reg. No. 35203), Brian M. Rothery (Reg. No. 35340), Brian D. Siff (Reg. No. 35679), Michael J. Lyons (Reg. No. 37386), Garland T. Stephens (Reg. No. 37242), William J. Sipio (Reg. No. 34514), Nikolaos C. George (Reg. No. 39201), Stephen S. Rabinowitz (Reg. No. 40286), Ognjan V. Shentov (Reg. No. 38051), and Kenneth L. Stein (Reg. No. 38704), all of Pennie & Edmonds LLP, whose addresses are 1155 Avenue of the Americas, New York, New York 10036, 1667 K Street N.W., Washington, DC 20006 and 3300 Hillview Avenue, Palo Alto, CA 94304, all of Pennie & Edmonds LLP (PTO Customer No. 20583), as its attorneys to prosecute this application and to transact all business in the United States Patent and Trademark Office connected therewith, said appointment to be to the exclusion of the inventors and their attorney(s) in accordance with the provisions of 37 C.F.R. 3.71, provided that, if any one of these attorneys ceases being affiliated with the law firm of Pennie & Edmonds LLP as partner, counsel, or employee, then the appointment of

POWER OF ATTORNEY

that attorney and all powers derived therefrom shall terminate on the date such attorney ceases being so affiliated.

Please direct all correspondence for this application to customer no. 20583.

I am the:

- Applicant/Inventor
- Assignee of record of the entire interest. See 37 CFR 3.71.
(Statement under 37 CFR 3.73(b) is applicable)

Statement Under 37 C.F.R. 3.73(b)

states that it is:

- the assignee of the entire right, title, and interest; or
- an assignee of less than the entire right, title and interest.
The above-identified application is co-owned with Washington University in St. Louis, which has a principle place of business at One Brookings Drive, St. Louis, MO 63130.

in the patent application identified above by virtue of either:

- An assignment from the inventor(s) of the patent application identified above.
A copy of the assignment is attached.

OR

- A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office on _____ at Reel _____, Frame _____, or for which a copy thereof is attached.

2. From: _____ To: _____
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3. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office on _____ at Reel _____, Frame _____, or for which a copy thereof is attached.

- Additional documents in the chain of title are listed on a supplemental sheet.
- Copies of assignments of other documents in the chain of title are attached.
[Note: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

POWER OF ATTORNEY

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Date:

7/09/02

ASSIGNEE: MedImmune, Incorporated
Signature: Timothy R. Pearson
Typed Name: Timothy R. Pearson
Position/Title: V.P. Treasurer & Secretary
Address: 35 West Watkins Mill Road
Gaithersburg, Maryland 20878

JOINT

ASSIGNMENT

WHEREAS, I, Solomon Langermann, ASSIGNEE, residing at 6606 Cross Country, Baltimore, MD 21215, citizen of the United States, am a co-inventor with Scott J. Hultgren, residing at Town and Country, 1068 Polo Downs, Town and Country, MO 63017, citizen of the United States; Chia-Suei Hung, residing at 1425 Cutter Avenue, St. Louis, MO 63139, citizen of Taiwan; and Julie Bouckaert, residing at 7549 Trenton Avenue, St. Louis, MO 63130, citizen of Belgium, of the invention in MUTANT PROTEINS, HIGH POTENCY INHIBITORY ANTIBODIES, AND FIMCH CRYSTAL STRUCTURE for which I have executed an application for a Patent of the United States

- which is identified by Pennie & Edmonds LLP docket no. 10271-037-999
- which was filed on December 10, 2001, Application No. 10/015,085

and WHEREAS, MedImmune, Inc. having a principle place of business at 35 West Watkins Mill Road, Gaithersburg, Maryland 20878, ASSIGNEE is desirous of obtaining my entire right, title and interest in, to and under the said invention and the said application:

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I, the said ASSIGNEE, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, my entire right, title and interest in, to and under the said invention, and the said United States application and all divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof;

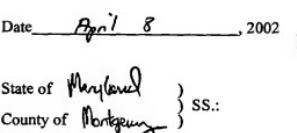
AND I HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND I HEREBY covenant and agree that I have full right to convey my entire interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

AND I HEREBY further covenant and agree that I will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal the day and year set opposite my signature.

Date April 8, 2002  L.S.

State of Maryland }
County of Baltimore } SS.:


On April 8, 2002, before me, Edward I. Amaya, Notary Public,
personally appeared Solomon Langermann, personally known to me on the basis of satisfactory evidence to be the person
whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized
capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed
the instrument.


WITNESS my hand and official seal

EDWARD I. AMAYA
NOTARY PUBLIC STATE OF MARYLAND
My Commission Expires January 4, 2006



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POWER OF ATTORNEY

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Date: _____ ASSIGNEE: Washington University in St. Louis
Signature: Michael Douglas 7/10/02
Typed Name: Michael Douglas
Position/Title: Associate Vice Chancellor For Research
Address: One Brookings Drive
St. Louis, Missouri 63130

JOINT

ASSIGNMENT

WHEREAS, WE, Scott J. Hultgren, residing at Town and Country, 1068 Polo Downs, Town and Country, MO 63117, citizen of the United States; Chia-Suei Hung, residing at 1425 Cutter Avenue, St. Louis, MO 63139, citizen of Taiwan; and Julie Bouckaert, residing at 7549 Trenton Avenue, St. Louis, MO 63130, citizen of Belgium, ASSIGNORS, are co-inventors with Solomon Langerman residing at 6606 Cross Country, Baltimore, MD 21215, citizen of the United States, of the invention in MUTANT PROTEINS, HIGH POTENCY INHIBITORY ANTIBODIES, AND FIMCH CRYSTAL STRUCTURE for which we have executed an application for a Patent of the United States

- which is identified by Pennie & Edmonds LLP docket no. 10271-037-999
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and WHEREAS, Washington University in St. Louis having a principle place of business at One Brookings Drive, St. Louis, MO 63130, ASSIGNEE is desirous of obtaining our entire right, title and interest in, to and under the said invention and the said application:

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, we, the said ASSIGNORS, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, our entire right, title and interest in, to and under the said invention, and the said United States application and all divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof;

AND WE HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

IN TESTIMONY WHEREOF, We hereunto set our hands and seals the day and year set opposite our respective signatures.

Date April 23, 2002

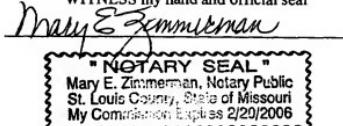
Scott J. Hultgren

L.S.

State of Missouri } SS.:
County of St Louis

On April 23, 2002, before me, Mary E Zimmerman, Notary Public, personally appeared Scott J. Hultgren, personally known to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal



Date 04/23, 2002


Chia-Suei Hung

L.S.

State of Missouri } SS.:
County of St Louis

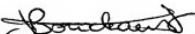
On April 23, 2002, before me, Mary E Zimmerman, Notary Public,
personally appeared Chia-Suei Hung, personally known to me on the basis of satisfactory evidence to be the person whose
name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and
that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal

Mary E Zimmerman



Date april 23, 2002


Julie Bouckaert

L.S.

State of Missouri } SS.:
County of St Louis

On April 23, 2002, before me, Mary E Zimmerman, Notary Public,
personally appeared Julie Bouckaert, personally known to me on the basis of satisfactory evidence to be the person whose
name is subscribed to the within instrument and acknowledged to me that she executed the same in her authorized capacity,
and that by her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the
instrument.

WITNESS my hand and official seal

Mary E Zimmerman

